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- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ROEMER, Terry [CA/CA]; 4935 Connaught Avenue, Montreal, Quebec H4V 1X4 (CA). BUSSEY, Howard [CA/CA]; 325 Victoria Ave, Westmount, Quebec H3Z 2N1 (CA). DAVISON, John [CA/CA]; 4886 DeBullion, Montreal, Quebec H2T 1Z5 (CA).
- (54) Title: IDENTIFICATION OF CANDIDA ALBICANS ESSENTIAL FUNGAL SPECIFIC GENES AND USE THEREOF IN ANTIFUNGAL DRUG DISCOVERY
- (57) Abstract: The invention relates to the identification and disruption of essential fungal specific genes isolated in the yeast pathogen *Candida albicans* namely *CaKRE5*, *CaALR1* and *CaCDC24* and to the use thereof in antifungal diagnosis and as essential antifungal targets in a fungal species for antifungal drug discovery. More specifically, the invention relates to the *CaKRE5*, *CaALR1* and *CaCDC24* genes, to their use to screen for antifungal compounds and to the drugs identified by such.
- (74) Agents: DUBUC, Jean, H. et al.; Goudreau Gage Dubuc, The Stock Exchange Tower, Suite 3400, 800 Place Victoria, Montreal, Quebec H4Z 1E9 (CA).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
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- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68 C07K14/40

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, MEDLINE, CHEM ABS Data, EMBASE, EPO-Internal, WPI Data, PAJ, EMBL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	US 5 194 600 A (BOONE CHARLES ET AL) 16 March 1993 (1993-03-16) the whole document	1,2,5, 8-10,13, 16-18

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/CA 00/00533

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Inter national Application No

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Information on patent family members

International Application No

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